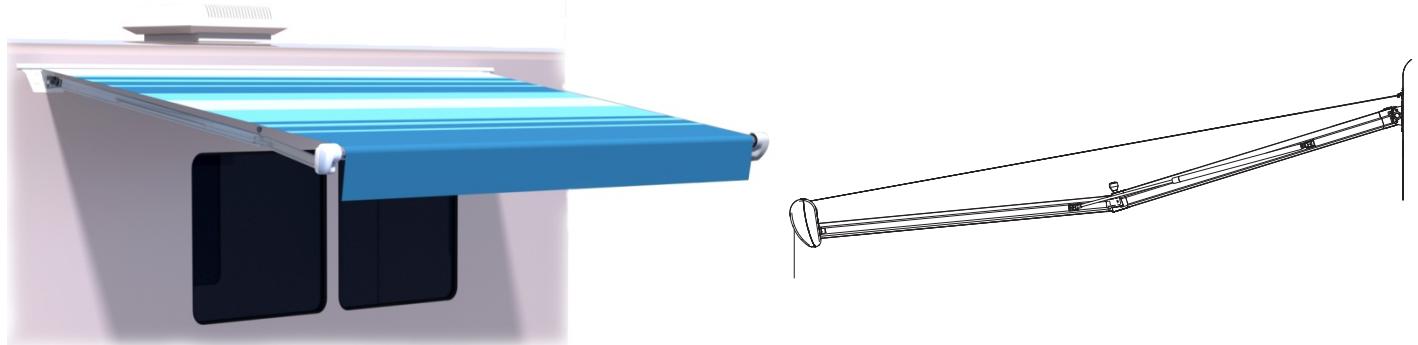


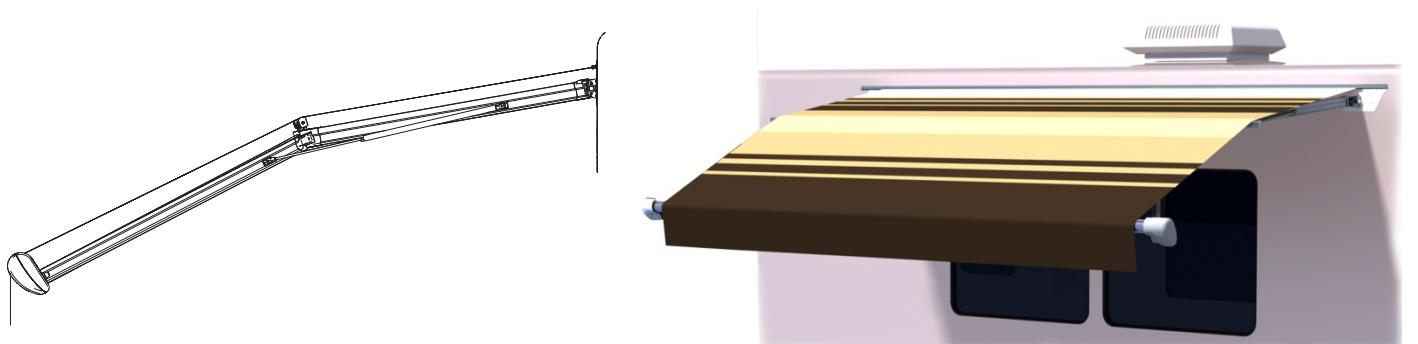


SERVICE MANUAL
LATITUDE

12V Motorized Lateral Arm Awning w/ Direct Response



SINGLE STAGE



DUAL STAGE

PROPRIETARY STATEMENT

The Latitude Awning is a product of Carefree of Colorado, located in Broomfield, Colorado, USA. The information contained in or disclosed in this document is considered proprietary to Carefree of Colorado. Every effort has been made to ensure that the information presented in the document is accurate and complete. However, Carefree of Colorado assumes no liability for errors or for any damages that result from the use of this document.

The information contained in this manual pertains to the current configuration of the models listed on the title page. Earlier model configurations may differ from the information given. Carefree of Colorado reserves the right to cancel, change, alter or add any parts and assemblies, described in this manual, without prior notice.

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SAFETY INFORMATION

⚠ WARNING A warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury and/or major property damage.

⚠ CAUTION A caution indicates a potentially hazardous situation that may cause minor to moderate personal injury and/or property damage. It may also be used to alert against unsafe practices.

NOTE: A note indicates further information about a product, part, or step.

Tip: A tip provides helpful suggestions.

Safety Notes:

- To avoid shock hazard and/or accidental system shorting, always disconnect battery or power source before working on or around the electrical system.
- Always wear appropriate safety equipment (i.e. goggles).
- Awnings have significant weight. Always use appropriate lifting devices and/or helpers when lifting or holding heavy objects.
- When using fasteners, use care to not over tighten. Soft materials such as fiberglass and aluminum can be "stripped out" and lose the ability to grip and hold.

Reference Publications located @ www.carefreeofcolorado.com:

- 070005-001 Installation Manual
- 070005-201 Owner's Manual
- 070005-301 Service Manual

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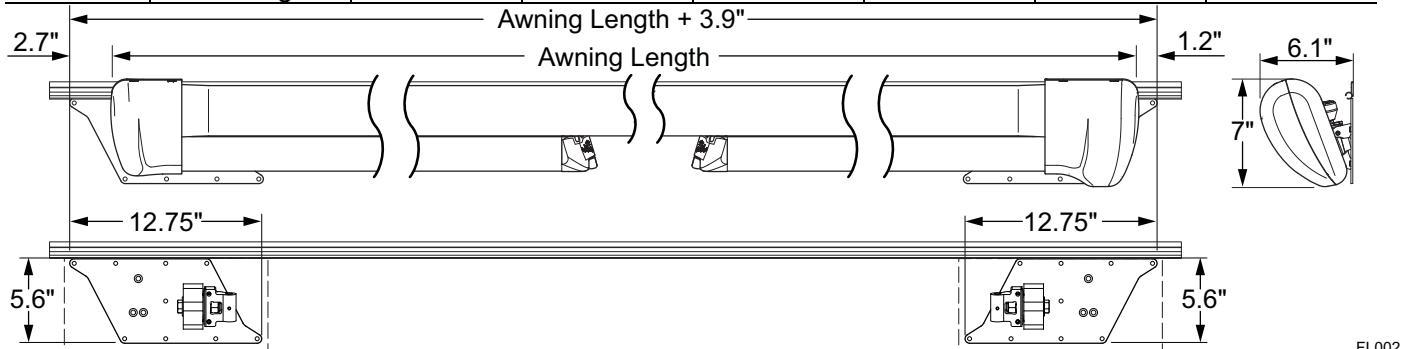
PRODUCT OVERVIEW

The Latitude Awning is a state of the art lateral arm awning. Each unit is equipped with lateral support arms. No vertical arms interfere with coach sidewalls, custom graphics or equipment mounted on the sidewalls.

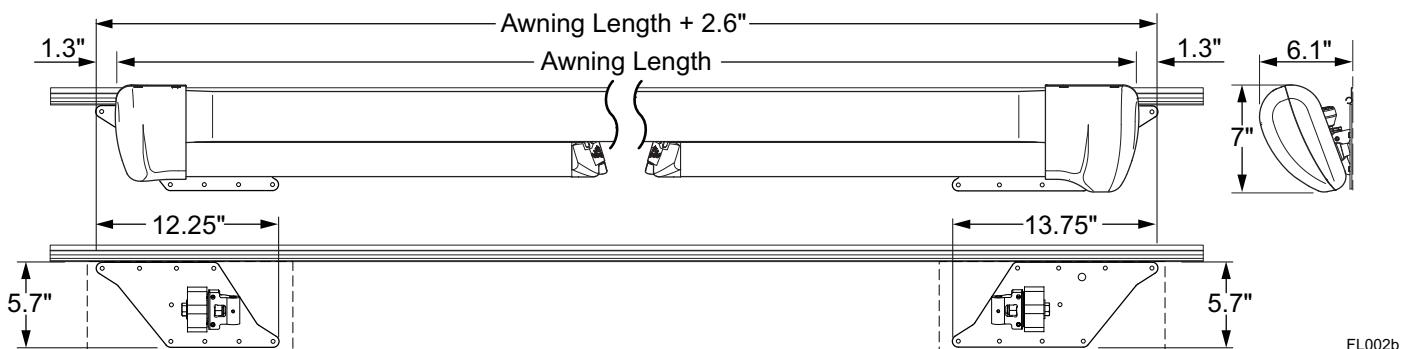
- Fully retractable and self-storing;
- Available in two configurations: single stage or dual stage;
- The awning motor operates on standard 12VDC (range 10VDC to 14VDC);
- Single touch operation for extend and retract;
- Direct Response is standard;
- LED lights standard, mounted in roller tube;

SPECIFICATIONS

Length	Single Stage	10' 4" – 20' [3.15m – 6.1m]								
	Dual Stage	10' 4" – 18' [3.15m – 5.49m]								
Support:	Lateral Spring Arms									
Motor:	Power: 10VDC–14VDC		Circuit Rating: 15 amp (motor is mounted in RH roller tube head)							
Power Source:	Motor and controls are routed and hardwired into the vehicle's 12V system									
Controls:	Carefree Direct Response									
Color:	Hardware:	White or Black								
	Fabric:	Heavy Duty Vinyl with Weatherguard or FLXGuard (refer to sales literature for colors and options)								
Weight:		10' 4"	12'	14'	16'	18'	20'			
	Single Stage	45.5 lbs.	48.3 lbs.	51.7 lbs.	55.0 lbs.	58.3 lbs.	61.6 lbs.			
	Dual Stage	52.1 lbs.	55.9 lbs.	60.4 lbs.	65.0 lbs.	69.6 lbs.	n/a			



Original Mounting Plate Configuration



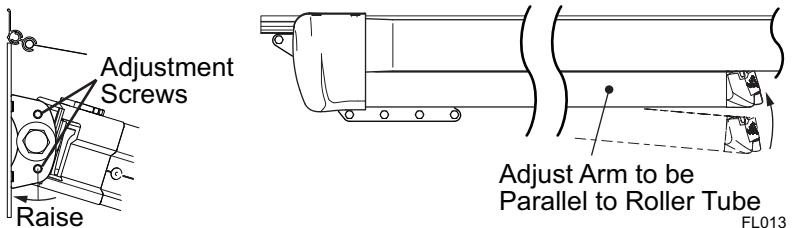
Current Mounting Plate Configuration

STANDARD SYSTEM ADJUSTMENTS

ADJUSTING THE ARM POSITION

For the awning to operate and close correctly, the arms must be parallel to the roller tube. If the arm sags, the arm position can be adjusted to bring the arm parallel.

1. Open the awning 2"-3" to access the adjustment screws located on the side of the arm knuckle at the wall.
2. Loosen the upper screw (counterclockwise).
3. Tighten (clockwise) the lower screw to raise the arm elbow.



NOTE: Make adjustments in quarter turn increments.

Tip: Lift the arm at the elbow while tightening the lower screw.

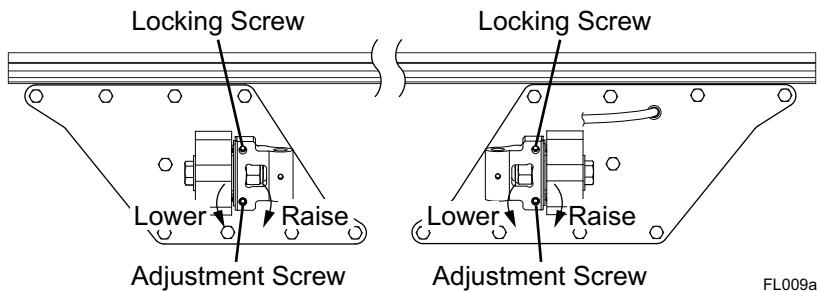
4. Repeat steps 2 and 3 until the arm is parallel with the roller tube.
5. Tighten the upper screw.

ADJUSTING THE PITCH

The awning pitch can be adjusted. It is strongly recommended that adjustments be made in small increments to achieve the desired setting.

This procedure works best with 2 people. One person to lift the roller tube to relieve the weight and one person to make the adjustments.

1. Open the awning.
2. Loosen the locking screw at the top of the knuckle.
3. To raise the pitch: Turn the lower adjustment screw clockwise.
4. To lower the pitch: Turn the lower adjustment screw counterclockwise.
5. Tighten the locking screws when the desired pitch is achieved.



Important Note: After the initial installation and the awning is opened, the awning may settle. This is normal. Check that the locking screws on the knuckle are snug.

CANOPY REPLACEMENT

1. Extend the awning completely.
2. Firmly tie the elbows of the spring arms together. Use a minimum 1/2" rope - do not use bungee cords. When tying the rope, use a non-slip knot such as a square knot or equivalent.

CAUTION FAILURE TO SECURE THE ARMS WILL ALLOW THE SPRING ARMS TO EXTEND POSSIBLY CAUSING PERSONAL INJURY AND DAMAGE TO THE AWNING.

3. Over extend the awning to align the fabric slot with the cutout on the idler side. This will cause slack in the fabric.
4. Disconnect Power.

CAUTION When the power is on, the direct response system is active. Movement during this procedure can cause the awning to attempt to close unexpectedly.

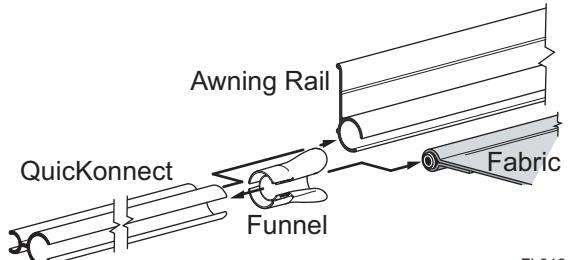
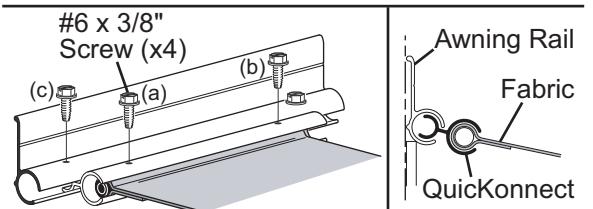
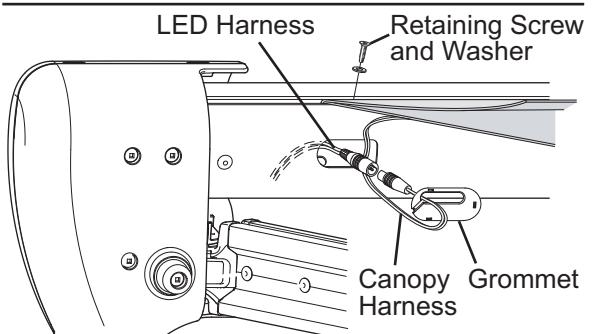
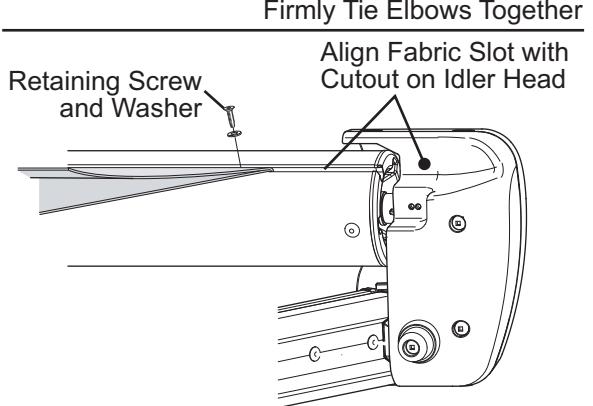
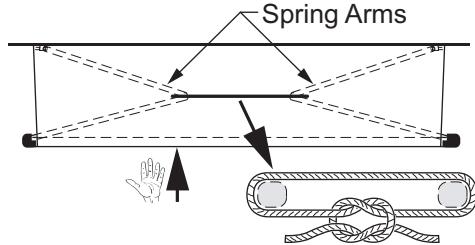
5. At the roller tube:
 - 5.1. Remove the fabric retaining screws and plastic washers (quantity of 2 ea).
 - 5.2. On the motor side, remove the split grommet from the roller tube. Carefully pull the wires and connectors out of the tube and disconnect.
6. At the awning rail, cut the LED harness close to the canopy. Clamp the harness going into the vehicle to prevent it from falling in the wall.

7. For canopies with QuicKonnект:

- 7.1. Remove the fabric retaining screws from the QuicKonnект (a & b).
- 7.2. Remove one retaining screw from the awning rail (c).
- 7.3. Slide the QuicKonnект from the awning rail and canopy.
- 7.4. Slide the canopy out of the roller tube.
- 7.5. Slide the new canopy into the roller tube and center.
- 7.6. At the reinforcements in the canopy, secure the fabric to the roller tube with the retaining screws and wahsers removed previously.
- 7.7. Slip the fabric funnel onto the QuicKonnект.
- 7.8. While holding the fabric, simultaneously slide the QuicKonnект into the awning rail and over the canopy.
- 7.9. Remove the funnel from the QuicKonnект.
- 7.10. Place one (1) #6 x 3/8" screw (c) through the awning rail outside the end of the QuicKonnект (not through the QuicKonnект).

8. For canopies without QuicKonnект:

- 8.1. Remove the fabric retaining screws from the awning rail.
- 8.2. Slide the canopy out of the roller tube and awning rail.
- 8.3. Slide the new canopy into the roller tube and awning rail and center in the roller tube.
- 8.4. At the reinforcements in the canopy, secure the fabric to the roller tube with the retaining screws removed previously.



FL016

9. While firmly pressing the roller tube, remove the arm ties. Slowly allow the roller tube and arms to extend.
10. Restore power.
11. Retract the awning and check that the canopy is rolling up squarely onto the roller tube. Adjust as necessary.
12. Place one (1) #6 x 3/8" screw (a) through the QuicKonnect (or awning rail if the QuicKonnect is not used), fabric and polyrod approximately 1" in from the fabric edge
13. On the opposite side, pull the fabric tight then place one (1) #6 x 3/8" screw (b) through the QuicKonnect (or awning rail if the QuicKonnect is not used), fabric and polyrod approximately 1" in from the fabric edge.
14. Connect the LED harness:
 - 14.1. At the roller tube, connect the canopy harness connector and LED connector. Then carefully push the connectors into the roller tube.
 - 14.2. Place the split grommet over the canopy harness and press the grommet into the hole of the roller tube.
 - 14.3. At the vehicle wall, route the new canopy harness through the wall to the switch.
Tip: Tie the new harness to the old harness that was cut previously. Use the old harness to pull the new harness through the wall to the desired location.
 - 14.4. At the vehicle wall, provide some slack between the canopy and wall. Seal the wall entrance hole and harness with a quality silicone sealant.
 - 14.5. Connect the new harness to the switch. Two (2) .187, 18-24 awg female disconnects are provided if connecting to a switch.
 - 14.6. Alternate method: At the wall, splice the new harness to the existing harness using 24 awg butt connectors. Push the connectors into the vehicle wall. Seal the wall entrance hole and wires with a quality silicone sealant.

NOTE: Be sure to allow enough harness from the canopy to provide some slack for the harness and adequate length for the connectors to be pushed inside the wall before sealing the hole and harness with a quality silicone sealant.

REMOVING THE HEAD COVERS

These instructions are for removing the head covers for service or replacement.

The illustration shows the motor head covers. The instructions apply to both the motor and idler head.

NOTE: *If replacing the covers:* To ensure that the covers properly match up and latch together always replace both the front and rear cover. Replacement kits include both the front and rear covers and attaching hardware.

1. Extend the awning to access the screws in the back cover of the head assembly.
2. Disconnect power.

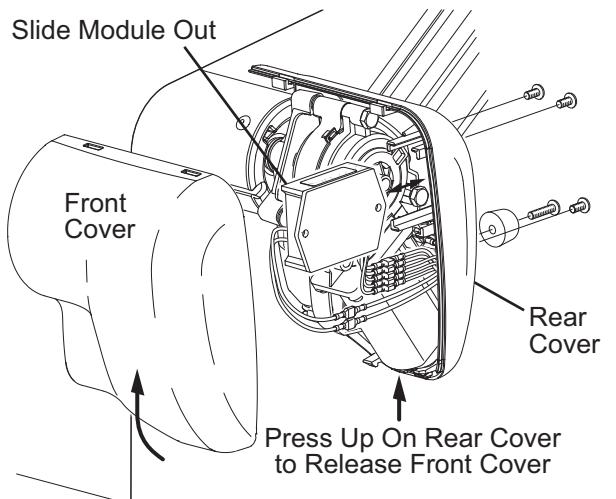
!CAUTION WHEN THE POWER IS ON, THE DIRECT RESPONSE SYSTEM IS ACTIVE. MOVEMENTS DURING THIS PROCEDURE CAN CAUSE THE AWNING TO CLOSE UNEXPECTEDLY.

Removing the Covers

3. Remove the front cover. The cover snaps onto the rear cover. To remove, press the bottom of the rear cover until the front cover releases then rotate and lift the front cover off.
4. For the motor side: Slide the sensor module out of the rear cover. It is not necessary to disconnect the wires. Carefully allow the module to hang down.
5. Remove the screws and bumper from the rear cover and remove the rear cover.

Attaching the Covers

6. Attach the rear cover.
7. For the motor side: Slide the sensor module into the rear cover. Tuck the wires inside the cover.
8. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.



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ARM REPLACEMENT

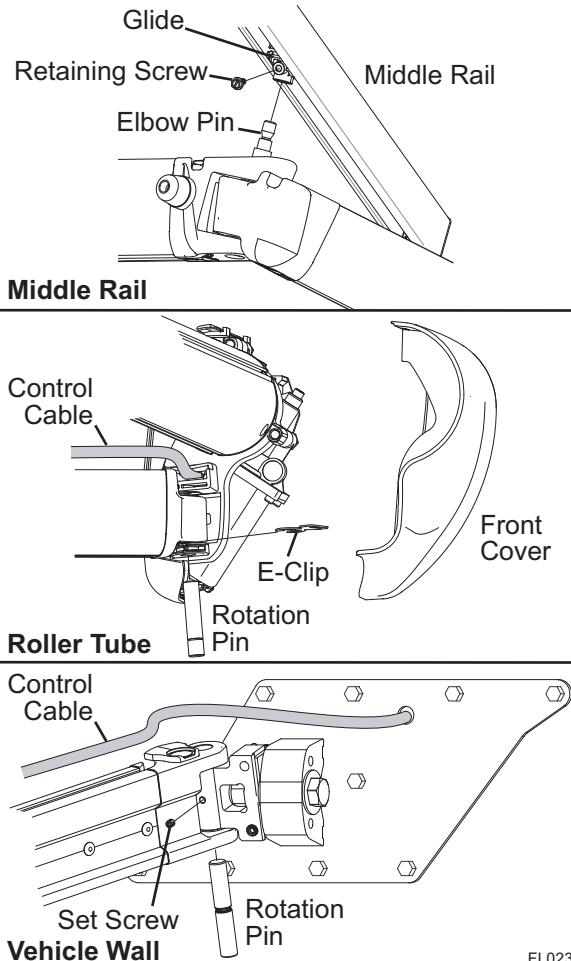
These procedures apply to both the left and right arms. Differences are noted where required.

⚠ WARNING THE ARM IS UNDER TENSION TO OPEN. USE EXTREME CARE TO FIRMLY HOLD THE ARMS DURING ASSEMBLY AND DISASSEMBLY TO AVOID ANY SUDDEN OR UNEXPECTED MOVEMENT BY THE ARM. SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE COULD OCCUR.

⚠ CAUTION When detached, do not allow the roller tube and/or middle rail to drop toward the ground. the twisting motion can damage the opposite arm and awning. Use a scaffold or similar device to support the roller tube and middle rail.

1. Over extend the awning.
2. DISCONNECT POWER.
3. *For Two-Stage Latitude:* Loosen the retaining screw in the glide above the arm elbow. Lift the middle rail off the elbow pin. Provide support for the middle rail.
4. *For the motor side arm:* Carefully pull the control cable from the slot at the top of the arm channels. It is not necessary to disconnect the cable from the motor or wall.
5. At the roller tube:
 - 5.1. Remove the front cover. The cover snaps onto the rear cover. To remove, press the bottom of the rear cover to release the front cover.
 - 5.2. Remove the E-Clip that holds the rotation pin.
 - 5.3. Provide support for the roller tube.
 - 5.4. Firmly hold the arm and remove the rotation pin. Pull the arm out and allow the arm to extend out below the roller tube. Support the arm.
6. At the wall connection:
 - 6.1. Loosen the setscrew and remove the rotation pin.
 - 6.2. Pull the arm from the knuckle and set aside.
7. Using two people firmly hold the new arm assembly and remove the shipping ties. Allow the arm to slowly open to its maximum extension.

⚠ CAUTION When the arm is closed, it can open with significant force. Use care when opening.



8. Lift the new arm and attach to the wall knuckle with the rotation pin and set screw removed previously. Ensure that the groove in the pin is in line with the screw hole.
9. At the roller tube:
 - 9.1. Fold the arm as necessary and align the arm with the mounting holes.
 - 9.2. Insert the rotation pin. Ensure that the pin is oriented with the groove down.
 - 9.3. Secure the pin with a new e-clip between the arm knuckle and lower attach bracket ear. Ensure that the clip is in the groove of the pin.
 - 9.4. Attach the front cover.
10. *For the motor side arm:* Carefully press the control cable into the slot at the top of the arm channels. Allow some slack at the joints and elbows to allow the cable to flex when the awning is operated.
11. *For Two-Stage Latitude:* Press the middle rail glide onto the elbow pin. Tighten the securing screw loosened previously.
12. To align the arm. Refer to "Adjusting the Arm Position" on page 1.
13. To adjust the arm pitch. Refer to "Adjusting the Pitch" on page 1.

GAS SPRING REPLACEMENT

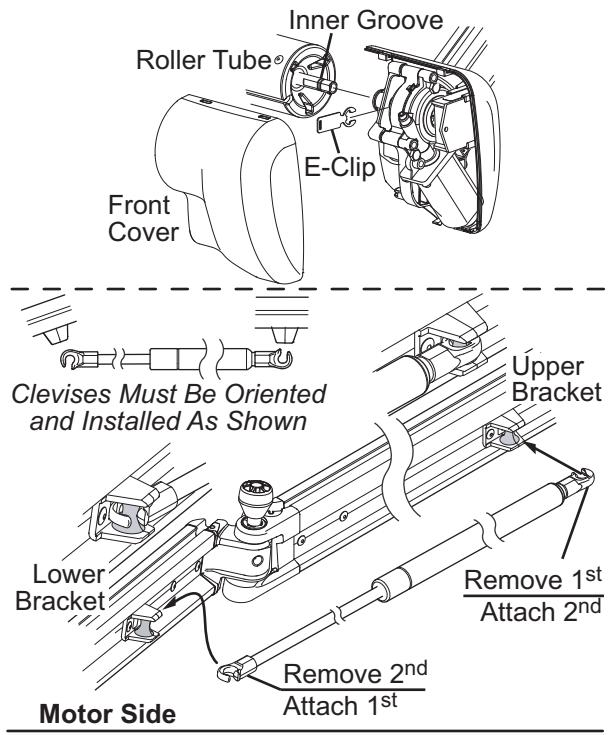
⚠ WARNING THE GAS SPRING CLEVISES MUST BE ORIENTED AND INSTALLED AS SHOWN. FAILURE TO ORIENT THE CLEVISSES CORRECTLY CAN CAUSE THE ARMS TO NOT FUNCTION CORRECTLY.

⚠ CAUTION When detaching the roller tube, do not allow the roller tube to drop toward the ground. the twisting motion can damage the opposite arm. Use a scaffold to support the roller tube.

1. Fully extend the awning.
2. DISCONNECT POWER.

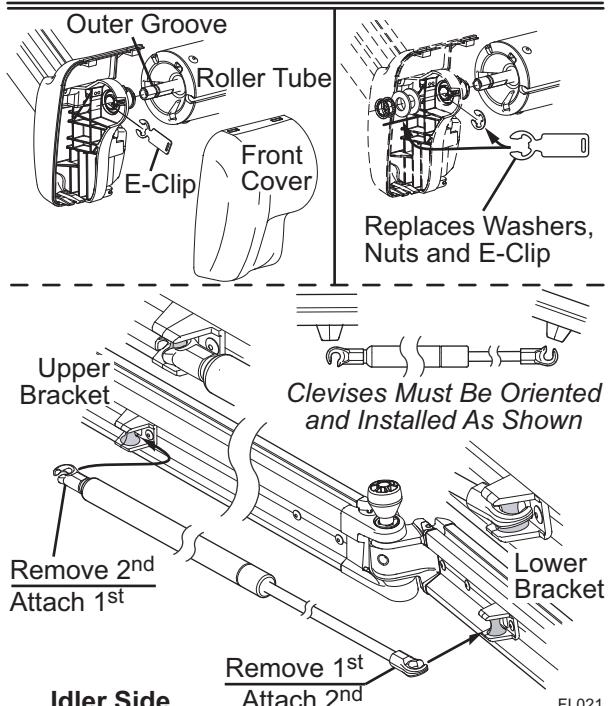
RH (MOTOR) ARM SPRING

1. Remove the front cover. To remove, press the bottom of the rear cover to release the front cover.
2. Remove the E-clip from the roller tube shaft.
3. While firmly holding the arm, slide the motor head off the roller tube shaft. Provide support for the roller tube.
4. Slowly allow the arm to extend fully. Provide support for the end of the arm.
5. Remove the old spring in the following order:
 - 5.1. Unclip the cylinder clevis from the upper bracket.
 - 5.2. Unhook the rod clevis from the lower bracket.
6. Install the new spring in the following order:
 - 6.1. Hook the rod clevis around the lower bracket post.
 - 6.2. Clip the cylinder clevis onto the upper bracket post.
7. Fold the arm to align the roller tube shaft with the motor head. It may be necessary to twist the roller tube to align the flats of the shaft with the motor hole.
8. Secure the shaft with a new e-clip. The e-clip goes in the inner groove of the roller tube shaft.
9. Reattach the front cover.



LH (IDLER) ARM SPRING

1. Remove the front cover. To remove, press the bottom of the rear cover to release the front cover.
2. Remove the e-clip (and press nuts and washers if installed) from the roller tube shaft.
3. While firmly holding the arm, slide the idler head off the roller tube shaft. Provide support for the roller tube.
4. Slowly allow the arm to extend fully. Provide support for the end of the arm.
5. Remove the old spring in the following order:
 - 5.1. Unclip the rod clevis from the lower bracket.
 - 5.2. Unhook the cylinder clevis from the upper bracket.
6. Install the new spring in the following order:
 - 6.1. Hook the cylinder clevis around the upper bracket post.
 - 6.2. Clip the rod clevis onto the lower bracket post.
7. Fold the arm to align the roller tube shaft with the idler head.
8. Secure the shaft with a new E-clip. The e-clip goes in the outer groove of the roller tube shaft.
9. Reattach the front cover.



REPLACING THE MOUNTING PLATE

This procedure requires two people. The illustrations show the RH plate. The procedure is the same for the LH plate.

1. Open the awning 18"-24". This is to allow adequate room for tools and access to the mounting plate.
2. Disconnect power.
3. Do not remove the bottom inner screw and the outer upper screw marked with * in the illustration. Remove the rest of the plate fasteners and set aside.
4. On the side being repaired:
 - 4.1. Collapse the arm. Leave a space between the arm and plate to access the set screw in later steps.
 - 4.2. Securely tie the arm channels together with zip ties. The ties should be close to the head.
5. Have a second person hold and support the roller tube and arm at the arm elbow.

6. For the motor side mounting plate:

⚠ CAUTION If replacing the plate on the motor side, use care to not pull or damage the cable.

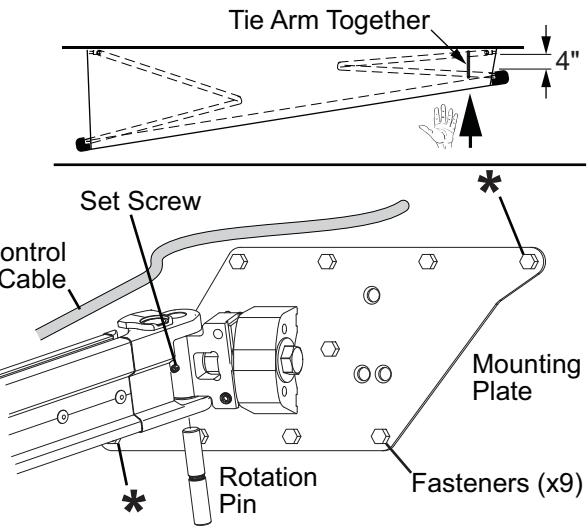
- 6.1. *If the motor cable is routed into the vehicle outside of the plate:* Partially remove the wire from the top of the arm channel to provide adequate slack to move the cable out of the way.
- 6.2. *If the motor cable and LED harness are routed through a hole in the plate:* Pull some slack cable out of the wall and cut the wires. It will be necessary to splice the wires together after the new plate is installed.
7. Remove the two remaining screws in the mounting plate and rotate the arm and plate away from the wall.
8. Loosen the set screw and remove the rotation pin that attaches the arm to the plate. Set mounting plate aside.
9. Attach the arm to the new plate using the rotation pin removed previously. Tighten the set screw to secure the pin.
10. Using the existing mounting holes in the wall, attach the new plate to the wall with a minimum of 2 screws in the bottom inner screw position and the outer upper screw position.
11. Remove the arm ties and allow the roller tube to slowly extend out.

⚠ CAUTION Firmly hold the arm while removing the ties. When the arm is closed, it can open with significant force.

12. Install the remaining plate fasteners.
13. For the motor side mounting plate:
 - 13.1. *If the motor cable is routed into the vehicle outside of the plate:* Insert the motor cable into the groove in the top of the arm channel.
 - 13.2. *If the motor cable and LED harness are routed through a hole in the plate:* Use appropriate sized butt connectors to attach motor cable and LED wires that were cut previously. Be sure to match the wire colors.

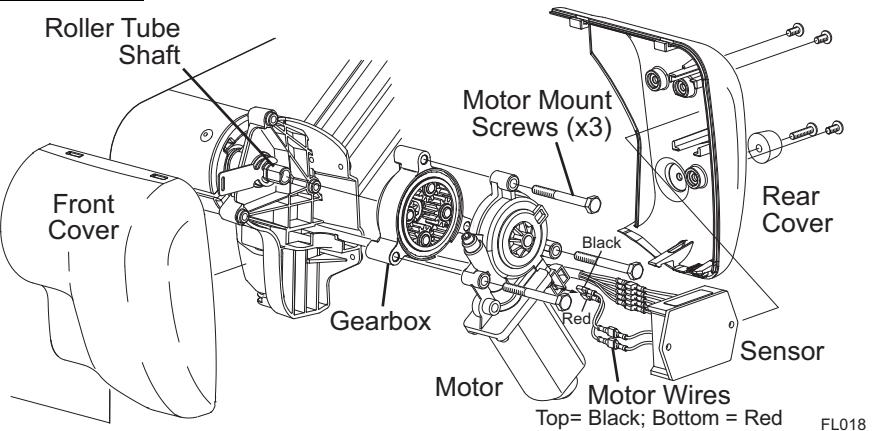
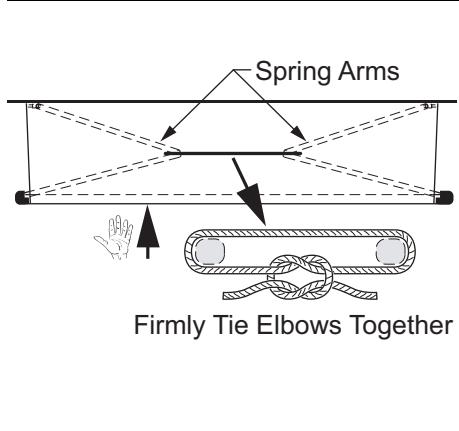
Wire	Wire Gauge	Butt Connector Size
Red and Black LED wires	24awg	22-24 awg
Red and Black Power	16awg	14-16 awg
Brown, Yellow and Gray	20awg	18-22 awg

- 13.3. Push the connectors into the wall and seal the hole with a quality silicone sealant.
14. Check that the arm is properly aligned with the roller tube. Refer to "Adjusting the Arm Position" on page 1.
15. Extend the awning and check the pitch. To adjust the arm pitch refer to "Adjusting the Pitch" on page 1.



* Remove these fasteners last from old plate;
Attach these fasteners first with new plate FL026

MOTOR/GEARBOX REPLACEMENT



9. Extend the awning a minimum of 18" to access the screws in the back cover of the motor side head assembly.
10. Disconnect Power.

CAUTION WHEN THE POWER IS ON, THE DIRECT RESPONSE SYSTEM IS ACTIVE. MOVEMENTS DURING THIS PROCEDURE CAN CAUSE THE AWNING TO ATTEMPT TO CLOSE UNEXPECTEDLY.

11. Press the roller tube toward the vehicle until the fabric becomes slack.
12. Firmly tie the elbows of the spring arms together. Use a minimum 1/2" rope - do not use bungee cords. When tying the rope, use a non-slip knot such as a square knot or equivalent.

CAUTION FAILURE TO SECURE THE ARMS AS DESCRIBED WILL ALLOW THE SPRING ARMS TO EXTEND WHEN THE MOTOR IS DETACHED POSSIBLY CAUSING PERSONAL INJURY AND DAMAGE TO THE AWNING.

13. Remove the front cover. The cover snaps onto the rear cover. To remove, press the bottom of the rear cover until the front cover releases then lift the front cover off. Set part aside.
14. Slide the sensor module out of the rear case. Disconnect the wires attached to the motor and allow the sensor to hang down on the remaining wires.
15. Remove the screws and bumper from the rear cover and remove the rear cover. Set parts aside.
16. Remove the motor mounting screws and set aside.
17. Slide the motor and gearbox off of the roller tube shaft. Separate the motor and gearbox.
18. Align the gearbox and new motor and insert the motor mount screws through both.
19. Align the gearbox with the roller tube shaft and attach the gearbox and motor with the mounting screws.

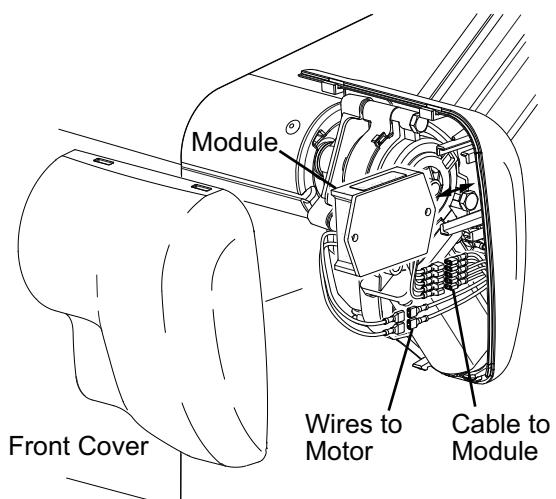
NOTE: It may be necessary to twist the roller tube to align the flats of the shaft with the hole in the gearbox.

20. Attach the motor wires from the module to the motor. Black goes to the top connection, Red goes to the bottom connection.
21. Attach the rear cover.
22. Slide the sensor module into the rear cover.
23. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.
24. Hold the roller tube and remove the ties around the arms. Allow the roller tube to extend out slowly.
25. Restore power and test.

SENSOR/CONTROL MODULE REPLACEMENT

This procedure may be done with the awning open or closed.

1. Disconnect power to the awning.
2. Remove the front cover. The cover snaps onto the rear cover. To remove, press the bottom of the rear cover until the front cover releases then lift the front cover off. Set part aside.
3. Slide the sensor module out of the rear case. Disconnect the wires to the module.
4. Connect the motor and cable wires to the new module. Make sure to match the wire colors.
5. Slide the new module into the rear cover and tuck the wires.
6. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.
7. Restore power and test.



FL019

LED LIGHTING

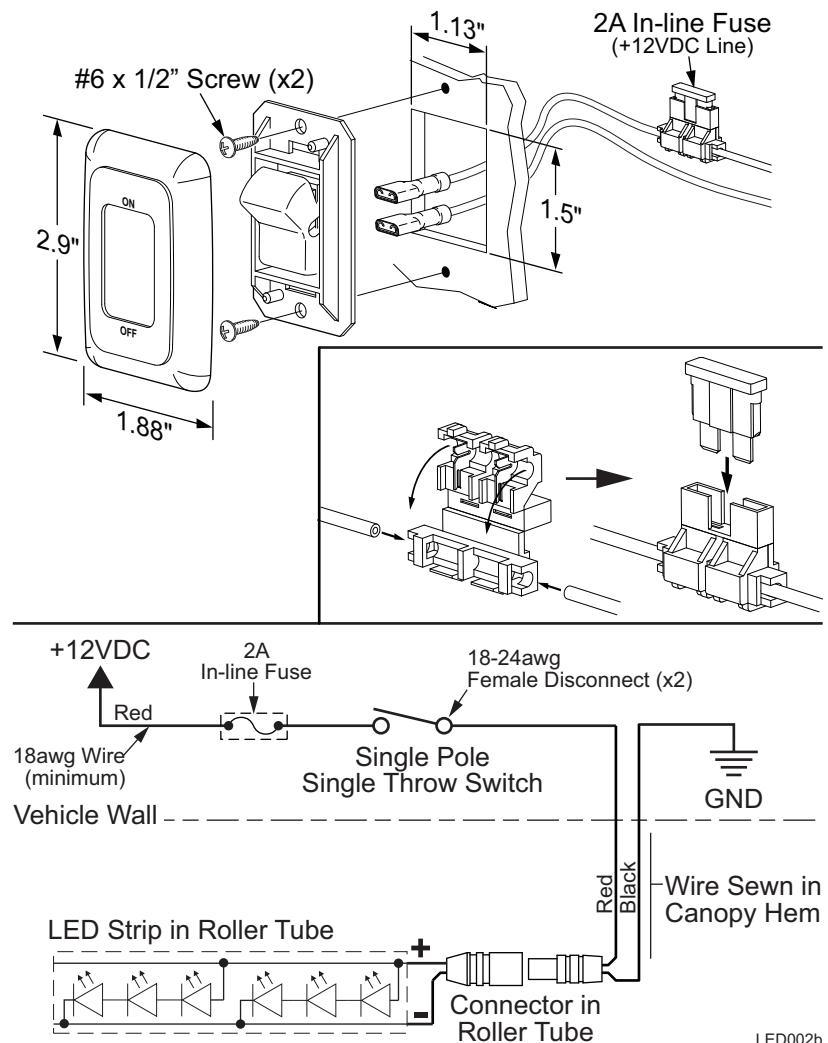
SWITCH INSTALLATION

NOTE: Installers may choose to furnish the control switch. The installation requires that the power line (+12VDC) be attached to a dedicated 2A circuit breaker or a 2A in-line fuse must be installed between the switch and power source. For easy access, locate the fuse close to the switch.

1. Determine the location of the switch.
2. At the switch location, cut a 1 1/8" x 1 1/2" hole.
3. Wire the switch as shown below. Wire terminals at the switch are .187, 18-24 awg female disconnects.

NOTE: Allow adequate slack in the 12VDC power line so that the in-line fuse (installed in step 4) can be accessed from behind the switch.

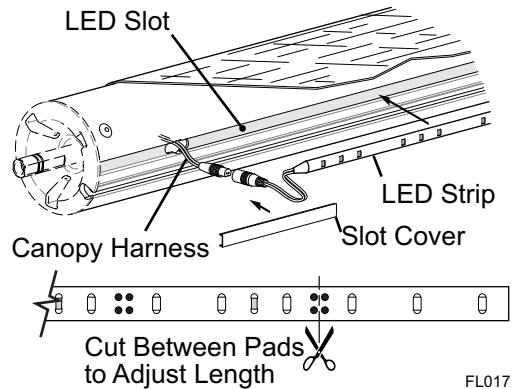
4. Install the in-line fuse:
 - 4.1. Near the switch, cut the red 12VDC power line to the switch. Do not strip the insulation.
 - 4.2. Insert a wire end into one of the wire channels until it butts up against the stop.
 - 4.3. Fold that half of the connector body over until the element contacts the wire. Use pliers to crimp the connector closed.
 - 4.4. Repeat for the second wire end.
 - 4.5. Slide the fuse into the fuse port. Ensure that is firmly seated.
5. Press the in-line fuse, wires and switch into the mounting hole. Secure the switch using two (2) #6 x 1/2" screws.
6. Snap the switch bezel over the switch frame.



LED002b

LED STRIP REPLACEMENT

1. Extend the awning out completely.
2. Disconnect power.
3. Remove the slot covers from the ends of the LED strip.
4. Use a non-permanent marker to mark the location of each end of the LED strip.
5. Carefully pull the wires and connectors out of the roller tube through the hole that is located behind the slot cover location. Disconnect the connectors.
6. Remove the existing LED strip.
7. Clean the slot to remove any dirt and tape residue.
8. Starting at the reference mark on the motor side, remove the release paper from the back of the new strip and press the strip into the LED slot.
9. At the end of the roller tube, cut the LED strip to match the mark on the idler side. To trim the LED strip, ALWAYS cut between the 4-pad cluster as shown.
⚠ CAUTION Ensure that power is off to the LED strip. Cutting the strip with power on can short the LED strip.
10. Connect the canopy harness and LED connectors. Then carefully push the connectors into the roller tube.
11. Press the slot covers into the LED slot.
12. Restore power and test.



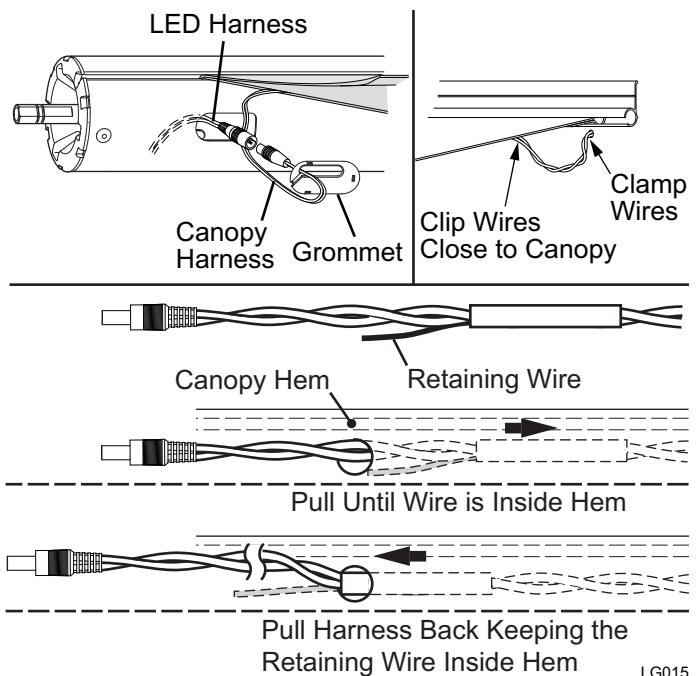
FL017

LED HARNESS REPLACEMENT

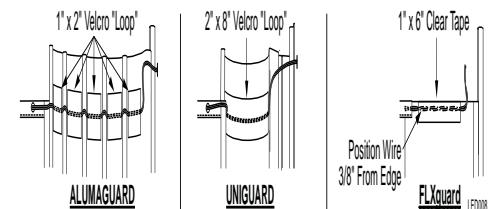
1. Over extend the awning so that the split grommet in the roller tube is accessible.
2. Disconnect power to the awning and LED controls.
3. Locate and remove the split grommet from the roller tube.
4. Carefully pull the wires and connectors out of the roller tube. Disconnect the connectors.
5. Clamp or tape the LED harness connector outside the roller tube to prevent it from falling back into the roller tube.
6. At the awning rail, cut the harness close to the canopy. Clamp the harness going into the vehicle to prevent it from falling in the vehicle wall.
7. At the roller tube, remove the connector from the canopy harness.
8. Firmly attach the wire ends of new harness to the old harness. Carefully use the old harness to pull the new harness through the hem of the canopy.
 - 8.1. The harness has a retention wire attached near the connector. When pulling the harness, pull the harness so that the retaining wire is inside the hem.
 - 8.2. Gently pull the harness back toward the roller tube to seat the retention wire inside the canopy hem as shown.
9. At the roller tube:
 - 9.1. Connect the canopy harness connector and LED connector. Then carefully push the connectors into the roller tube.
 - 9.2. Place the split grommet over the canopy harness and press the grommet into the hole of the roller tube.
10. At the vehicle wall:
 - 10.1. For canopies with FLXguard, it will be necessary to attach the wire to the fabric wrap. For vinyl canopies with Weatherguard, the harness is routed in the seam of the Weatherguard, no additional attachment is necessary.
 - 10.1.1. For FLXguard: Position the harness approximately 3/8" from the edge of the material. Attach using a 1" x 6" piece of clear tape (the tape is a special bond tape available from Carefree).
 - 10.2. At the vehicle wall, route the new canopy harness through the wall to the switch.

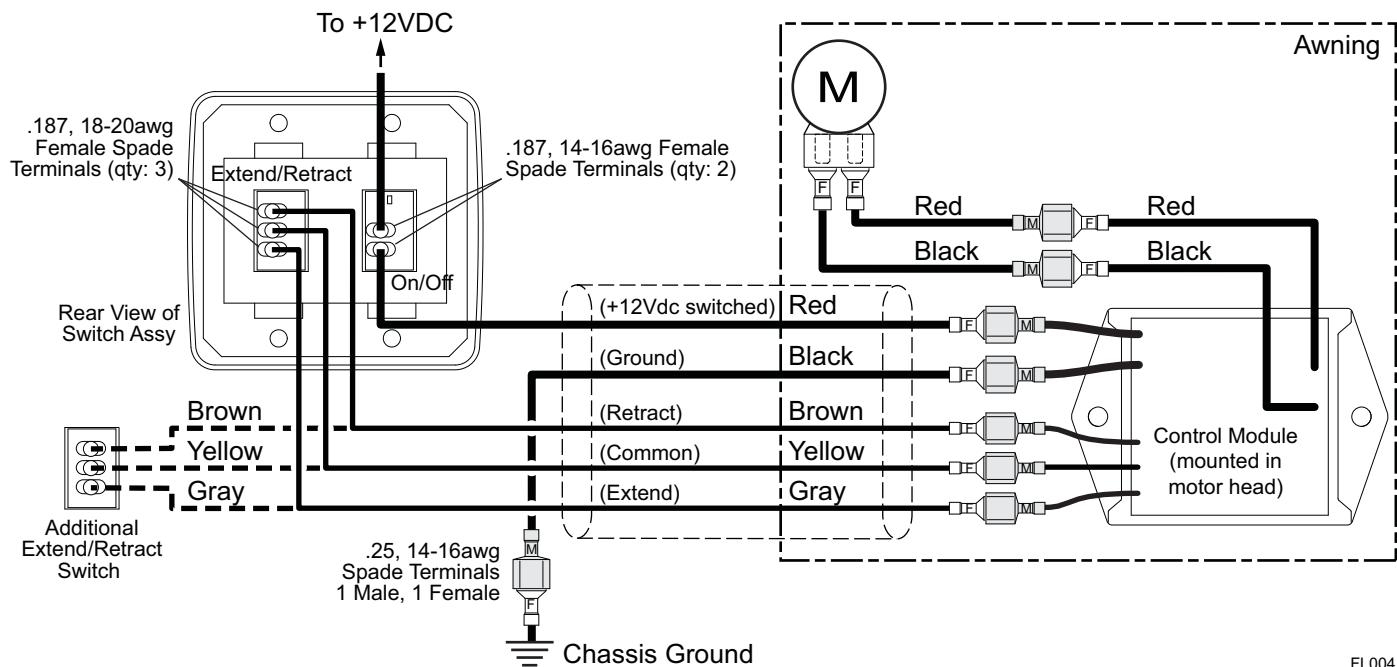
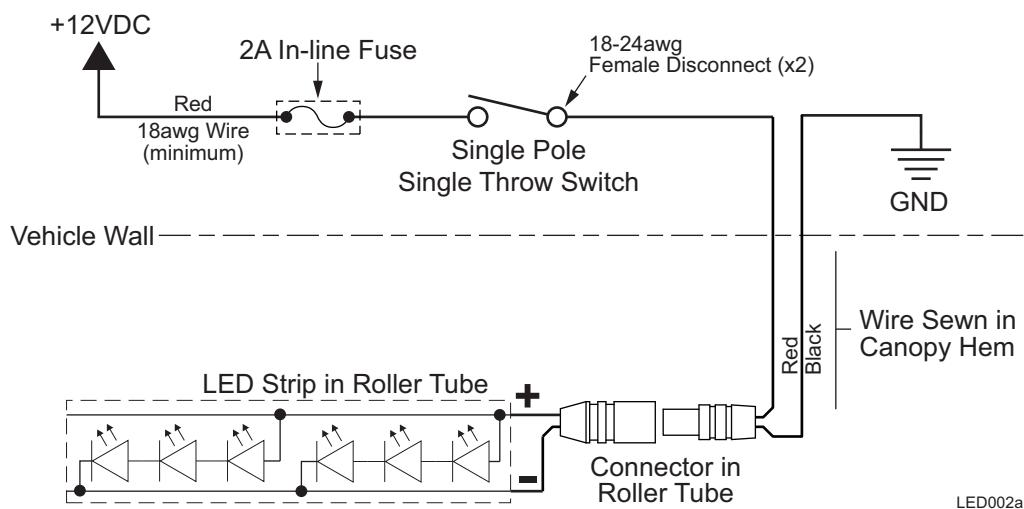
Tip: Tie the new harness to the old harness that was cut previously. Use the old harness to pull the new harness through the wall to the desired location.
 - 10.3. Connect the new harness to the switch. Two (2) .187, 18-24 awg female disconnects are provided if connecting to a switch.
 - 10.4. Alternate method: At the wall, splice the new harness to the existing harness using 24 awg butt connectors. Push the connectors into the vehicle wall. Seal the wall entrance hole and wires with a quality silicone sealant.

NOTE: Be sure to allow enough harness from the canopy to provide a 3" loop for slack and adequate length for the connectors to be pushed inside the wall before sealing the hole and harness.



LG015



WIRING DIAGRAMS*Switch and Control Module**LED Lighting*

STANDARD MAINTENANCE

Maintaining a Carefree Awning is easy. Just follow these basic steps:

- Always operate the awning according to the instructions.
- Periodically check that the fasteners are tight. Tighten if necessary.
- Keep the awning fabric and arms clean.

FABRIC CARE

⚠CAUTION Do not use oil based cleaners or any caustic, granulated, or abrasive type cleaners on your Carefree product.

1. One of the best ways to keep the fabric looking good and to delay the need for deep or vigorous cleanings is to hose fabrics off on a monthly basis with clear water. This practice will help prevent dirt from becoming deeply imbedded in the fabric. In most environments, a thorough cleaning will be needed every two to three years.
16. When it's time for a thorough cleaning, the fabric can be cleaned while still on the awning frame.
 - For Vinyl Fabric – Use a soft brush and warm water with soap.
 - For Acrylic Fabric – Use a stiff brush and warm water with soap.
17. When cleaning the fabric, it is important to observe the following:
 - Always use a natural soap, never detergent.
 - Water should be cold to lukewarm, never more than 100°F.
 - Air-dry only. Never apply heat to the fabric.
 - Always allow the fabric to dry thoroughly before rolling up the awning.

Mildew

Mildew is a fungus growth that looks like dirt. Vinyl coated polyester fabrics are mildew resistant because of a chemical biocide in the vinyl coating. Under ordinary conditions, mildew will not appear. However, in areas where high temperature and humidity are common, mildew can be a problem and required the material to be washed more frequently. Thoroughly rinse the fabric with clean water and allow to air dry completely before rolling up the awning.

Pooling

When water collects on the top of the fabric, this is known as "pooling". This can occur during inclement weather or if a running air conditioner discharges over the awning. The water is dumped when the awning is retracted. It is recommended that if water accumulates on the top; retract the awning in steps (8"-12") to dump the water. This will help prevent the fabric from stretching or distorting.

The effects of wind and rain on an awning are unpredictable. Severe damage to the awning and the vehicle may result. IF WIND OR EXTENDED PERIODS OF RAIN ARE EXPECTED, ROLL UP THE AWNING AND SECURE FOR TRAVEL.

Hardware Maintenance

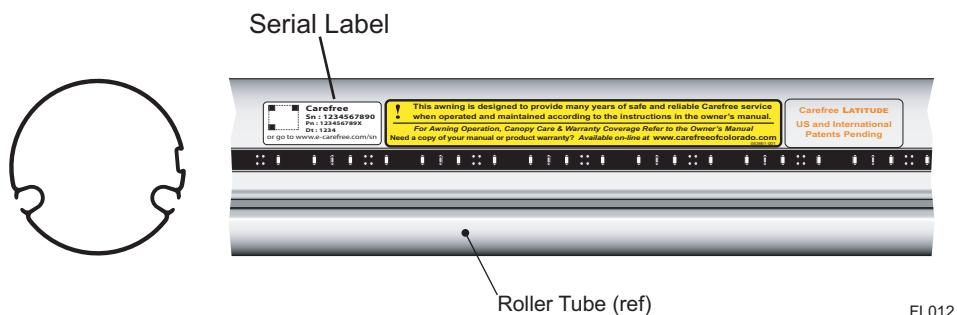
- Replace any parts that become damaged.
- Periodically check all mounting hardware, screws, lags, etc., and re-tighten when necessary.

MOTOR MAINTENANCE

- Check all wiring and connections for wear. Repair when needed.
- Check that the sealant is providing a good seal and no water is accumulating on the wiring.

PART NUMBER LISTING

PART NUMBER/SERIAL NUMBER LOCATION



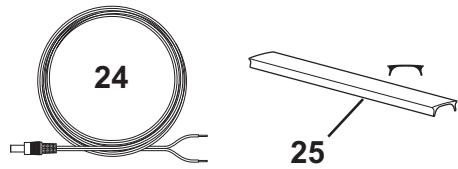
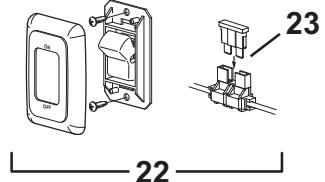
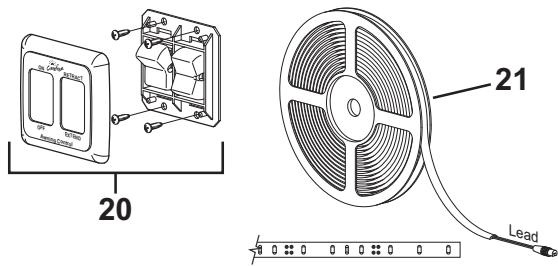
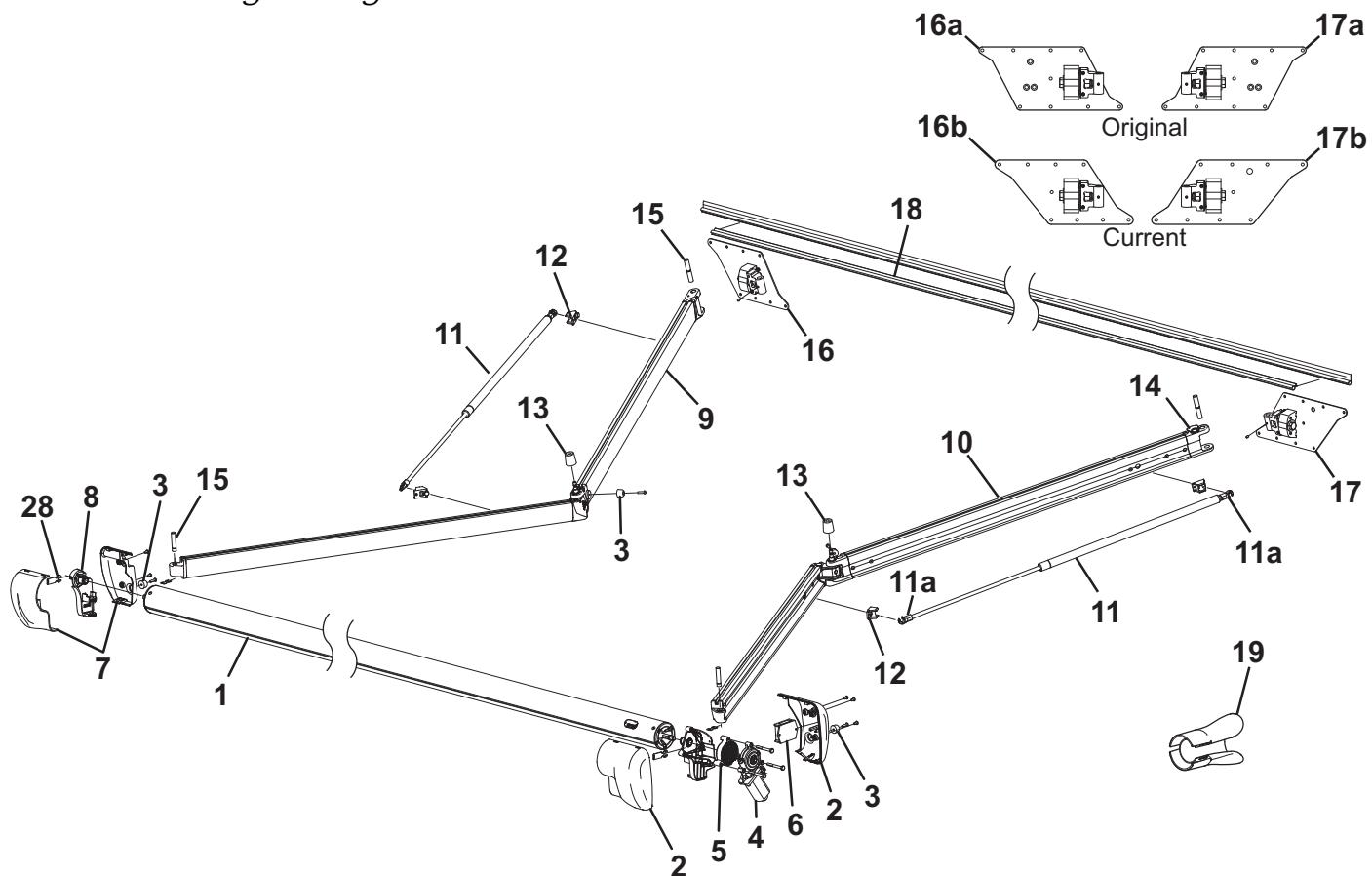
FL012

PART NUMBER CONFIGURATION

Example: Part Number GW 144 58 58 B RB

STYLE CODE	SIZE (IN INCHES)	CANOPY COLOR	FABRIC WRAP COLOR	EXTRUSION COLOR	LED LIGHTS
GW	144	58	58	B	RB
Single Stage	144"	Black/Gray	Black	Black	LED Lights
GW = Latitude Single Stage GX = Latitude Dual Stage	124" (10'-4")" to 240" (20') Available in 1" increments	VINYL: Refer to sales and order information for color and option availability and codes	WEATHERGUARD: 00 = White (XX) = Matching Vinyl FLXGUARD: 5A = Black 5B = White	B = Black W = White	Standard – Lights mounted in roller tube

ILLUSTRATED PARTS LIST

Latitude - Single Stage

FL501

Item	Part Number	Description	Notes
1	R001782-xxx	Roller Tube Assy	2
2	R001783-00X	Cover Kit, Motor	
3	R001798	Bumper	
4	R001784	Motor Assy	
5	R001810	Gearbox Assy	
6	R060686-003	Sensor/Control Module, Direct Response	
7	R001785-00X	Cover Kit, Idler	
8	R012660-001	Idler Bracket	
9	R001786-10X	Arm Assy, LH, Single Stage	3
10	R001787-00X	Arm Assy, RH, Single Stage	3
11	R001788	Gas Spring, Latitude Single Stage	
11a	R040905-001	Hook, Gas Spring	pkg of 2
12	R001789	Support, Gas Spring	pkg of 2
13	R001823	Barrel, used on Single Stage Only	pkg of 2
14	R001790	Cable Retainer	used on Single Stage Only
15	R001791	Arm Attach Kit	One Arm 3
16a	R019376-20X	Mounting Bracket Assy, LH	Original 5
16b	R019380-20X	Mounting Bracket Assy, LH	Current 5
17a	R019376-30X	Mounting Bracket Assy, RH	Original 5
17b	R019380-30X	Mounting Bracket Assy, RH	Current 5
18	R001792XXX-xxx	QuicKonnect	
19	R040925-001	Canopy Funnel	
20	R019468-006	Switch Kit	
21	R060755-001	LED Strip, White, 8" Lead	Used for awnings 18' and shorter 4
	R060755-002	LED Strip, White, 26" Lead	Used for awning 19' and longer 4
22	SR101	Switch and Fuse Kit, LED	
23	R019493-001	Fuse Kit (includes fuse holder and 2A fuse)	
24	R060715-001	Harness, LED, Canopy	
25	R001716	Slot Cover	24" Long
26	R060703-00X	Cable Assy, 5 Conductor	not shown
27		Canopy Only	Refer to Canopy Order Form
28	R001848	E-Clips, Roller Tube Attach	pkg of 2 6
29	R019886-005	Screw Pack, 1/4-20 x 1" Self-drilling, White	not shown
	R019886-006	Screw Pack, 1/4-20 x 1" Self-drilling, Black	not shown
30	R019886-007	Screw Pack, 1/4 x 2" Lag, White	not shown
	R019886-008	Screw Pack, 1/4 x 2" Lag, Black	not shown

Notes: 1. 0X = Color = 05 – White, 06 – Black; xx = Length

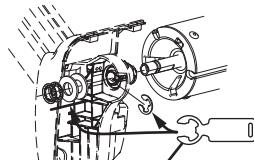
2. Roller tube (item 1) is complete with end bushings, LED strip

3. Arm Assemblies (items 9, 10) includes items 3, 11, 12, 13 and 14. Does not include attaching pins.
For attach pins order item 15 (1 kit per arm).

4. Replacement LED strips are sent on a roll and cut to length during installation.

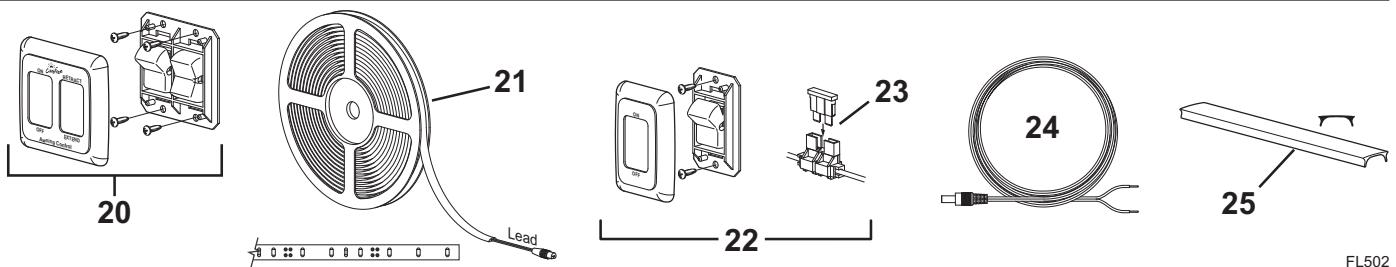
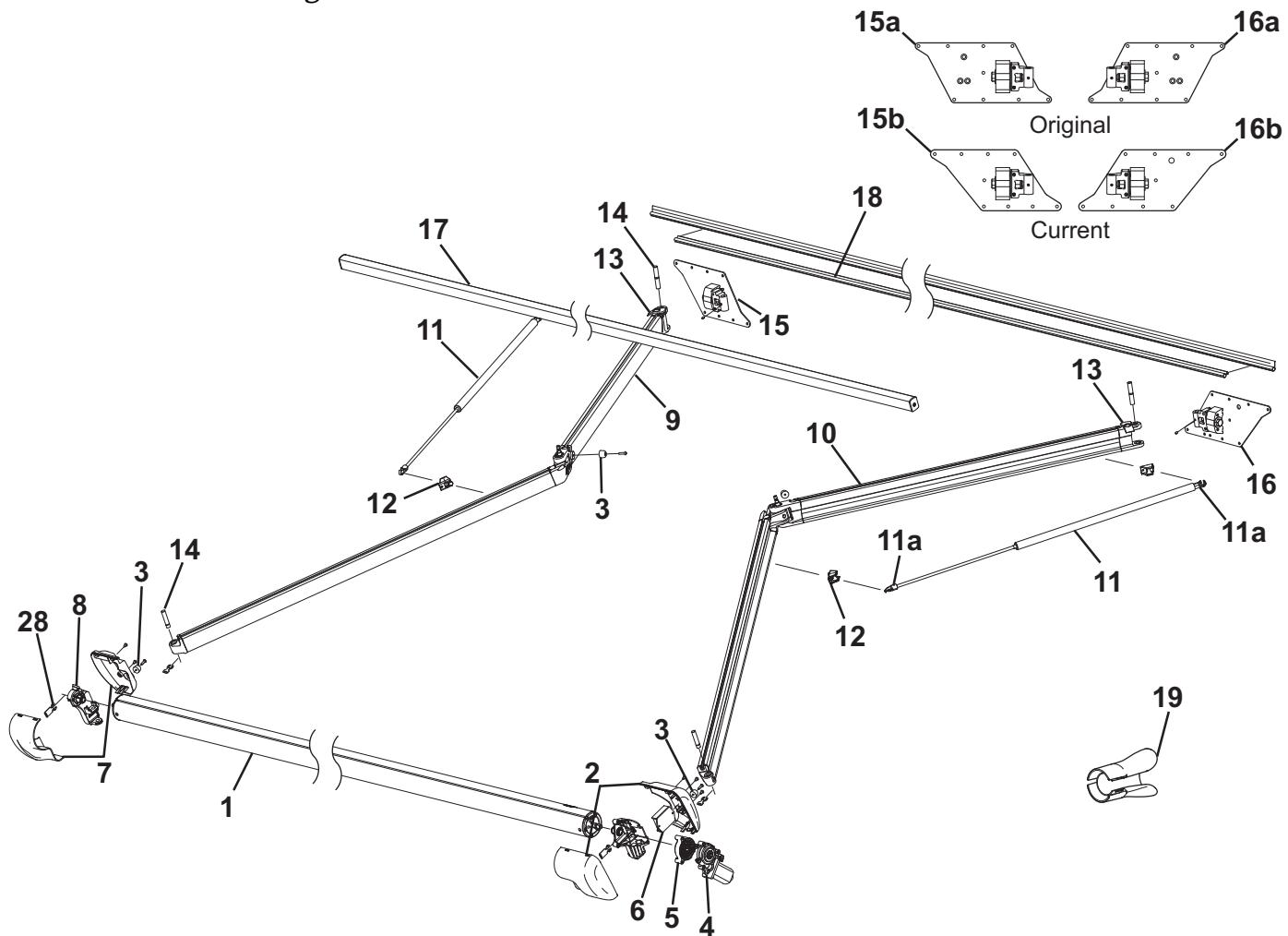
5. Original and current mounting brackets are not interchangeable. Replacement brackets must match the existing brackets. Original brackets can be identified by the 3 hole pattern beside the knuckle.

6. The roller tube e-clips w/ tab replaces the previous round e-clips and the push nuts and washers used on the idler side.



Replaces Washers,
Nuts and E-Clip
FL030

Latitude - Dual Stage

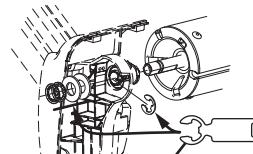


FL502

Item	Part Number	Description	Notes
1	R001782-xxx	Roller Tube Assy	2
2	R001783-00X	Cover Kit, Motor	
3	R001798	Bumper	
4	R001784	Motor Assy	
5	R001810	Gearbox	
6	R060686-003	Sensor/Control Module, Direct Response	
7	R001785-00X	Cover Kit, Idler	
8	R012660-001	Idler Bracket	
9	R001793-10X	Arm Assy, LH, Dual Stage	3
10	R001794-00X	Arm Assy, RH, Dual Stage	3
11	R001795	Gas Spring, Latitude Dual Stage	
11a	R040905-001	Hook, Gas Spring	pkg of 2
12	R001789	Support, Gas Spring	pkg of 2
13	R001796	Ramp, Midrail	pkg of 2
14	R001791	Arm Attach Kit	One Arm
15a	R019376-20X	Mounting Bracket Assy, LH	Original 5
15b	R019380-20X	Mounting Bracket Assy, LH	Current 5
16a	R019376-30X	Mounting Bracket Assy, RH	Original 5
16b	R019380-30X	Mounting Bracket Assy, RH	Current 5
17	R001797XXX-xxx	Middle Rail Assy	
18	R001792XXX-xxx	QuicKonnect	
19	R040925-001	Canopy Funnel	
20	R019468-006	Switch Kit	
21	R060755-001	LED Strip, White, 8" Lead	Used for awnings 18' and shorter
	R060755-002	LED Strip, White, 26" Lead	Used for awning 19' and longer
22	SR101	Switch and Fuse Kit, LED	
23	R019493-001	Fuse Kit (includes fuse holder and 2A fuse)	
24	R060715-001	Harness, LED, Canopy	
25	R001716	Slot Cover	24" Long
26	R060703-00X	Cable Assy, 5 Conductor	not shown
27		Canopy Only	Refer to Canopy Order Form
28	R001848	E-Clips, Roller Tube Attach	pkg of 2
29	R019886-005	Screw Pack, 1/4-20 x 1" Self-drilling, White	not shown
	R019886-006	Screw Pack, 1/4-20 x 1" Self-drilling, Black	not shown
30	R019886-007	Screw Pack, 1/4 x 2" Lag, White	not shown
	R019886-008	Screw Pack, 1/4 x 2" Lag, Black	not shown

Notes: 1. 0X = Color = 05 - White, 06 - Black; xx = Length

2. Roller tube (item 1) is complete with end bushings, LED strip
3. Arm Assemblies (items 9, 10) includes items 3, 11, 12, 13. Does not include attaching pins. For attach pins order item 14 (1 kit per arm).
4. Replacement LED strips are sent on a roll and cut to length during installation.
5. Original and current mounting brackets are not interchangeable. Replacement brackets must match the existing brackets. Original brackets can be identified by the 3 hole pattern beside the knuckle.
6. The roller tube e-clips w/ tab replaces the previous round e-clips and the push nuts and washers used on the idler side.



Replaces Washers,
Nuts and E-Clip
_{FL030}